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*Sub. 91 conts*

and allowing the vegetation to suck water pollutants; forming seedling beds for microorganisms using filaments of the resin cultivating base and roots of vegetation growing therein; and allowing microorganisms to decompose water pollutants in the water.

7. The resin cultivating base of any one of claims 1, including the low density portion and the high density portion in a unit base.

8. The resin cultivating base of any one of claims 1, wherein the low density portion and the high density portion are separately manufactured; the low density portion is positioned on the high density portion for the purpose of making a multi-tier structure; and the multi-tier structure is placed in the waterway with a water flow space maintained between the high density portion and a bed of the waterway.

9. The method of claim 6, wherein a plurality of waterways are juxtaposed, and the purified water is returned to the waterways.

10. The resin cultivating base of any one of claims 1, wherein a frame made of hollow synthetic resin woods is fixedly connected to four corners of the high density portion near a border between the low density portion and the high density portion, or to four corners of the high density portion near the surface of the water.

11. The resin cultivating base of any one of claims 1, wherein the synthetic resin woods are assembled in the shape of a square frame on a bed of the waterway, and the resin cultivating base including the low and high density portions is fitted into the frame.

12. The resin cultivating base of claim 3, wherein the spaces free from the filaments are used for enabling posts, which are made of synthetic resin woods and stand upright on the bed of the waterway, to pass through, for the purpose of fixing the resin

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14. The resin cultivating base of any one of claims 1, wherein a resin cultivating base including both the low and high density portions in a unit base is positioned on a resin cultivating base including the high density portion.

15. The resin cultivating base of any one of claims 1, wherein the resin cultivating base on the waterway is covered by a vinyl house.

16. The resin cultivating base of any one of claims 10, wherein open ends of the hollow space formed in hollow synthetic resin woods are closed by caps, or preferably the hollow space are filled with foamed styrene having a high buoyancy.

17. The resin cultivating base of any one of claims 10, wherein holes are made at four corners of each high density portion and a plurality of resin cultivating base are coupled using fixtures such as bolts and nuts fitted in the holes and the fixtures are fixedly connected to the frame.

18. The resin cultivating base of any one of claims 1, wherein a plurality of stacked resin cultivating base having low and high density portions oriented in one direction are alternately arranged with the directions alternately crossed.

19. The resin cultivating base of any one of claims 1, wherein pipes generating bubbles are provided in a water flow space for the purpose of ventilating the water flow space.

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